

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3680	700/245,253,255,258,262,302.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 10:50
L2	2044	180/167,168,169.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 10:50
L3	1994	318/568.12,580,581,587.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 10:50
L4	5099	701/50,213.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 10:50
L5	1080	901/1.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 10:51
S1	1	"10575679"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/11 15:31
S2	1	"7089876".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/14 16:35
S3	1	"20080281481"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/14 16:36
S4	1	"7144057".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/14 16:43
S5	1	"10575679" and suction	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:02
S6	1	"10575679" and climb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:08
S7	1	"20090301522"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:34
S8	1	"5435031".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:45
S9	1	"20040021439"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:47
S10	1	"5771987".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:49
S11	1	"4786334".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/17 17:49
S12	3	((("6845918") or ("6309468") or ("4518437"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/17 17:50
S14	197	pool AND robot AND drive AND controller AND current AND threshold AND wall	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 17:16
S15	1	pool same robot same drive same controller same current same threshold same wall	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 17:17
S16	4	pool same2 robot same2 drive same2 controller same2 current same2 threshold same2 wall	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 17:17
S17	15	("4518437"   "5337434"   "5435031"   "5569371"   "5715797"   "5947051"   "6299699"   "6409916"   "6412133"   "6758655"   "6797157"   "6842931").PN. OR ("6965814").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 17:21
S19	1	pool same robot same (cartesian )	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 18:01

S20	1	cartesian\$1like near3 scanning	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 18:03
S21	132	cartesian near3 scanning	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 18:03
S22	9	cartesian near3 scanning near3 pattern	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/19 18:03
S23	13	"1122382"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/20 11:24
S24	5	"2004019295"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/20 11:27
S25	3	((("5771987") or ("4786334") or ("6815918")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 11:55
S26	0	S25 and drive and threshold and current and control\$4 and wall	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 11:57
S27	2	S25 and drive and (threshold or predetermined) and current and control\$4 and wall	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 11:57
S28	149173	drive and (threshold or predetermined) and current and control\$4 and wall	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 12:14
S29	36	drive same4 (threshold or predetermined) same4 current same4 (control\$4 or processor or microprocessor) same4 wall same4 pool same4 (robot\$2 or cleaner or unmanned or selfguided or autonomous)	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 12:17
S30	0	(drive near0 means) same (robot\$2 or unmanned or autonomous or selfguid\$3 or cleaner) same (control or controller or processor or microprocessor) same current same (threshold or predetermined or limit or interval or range) same wall same impact	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 13:37
S31	2	(driv\$3) same (robot\$2 or unmanned or autonomous or selfguid\$3 or cleaner) same (control or controller or processor or microprocessor) same current same (threshold or predetermined or limit or interval or range) same wall same impact	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 13:38
S32	300	(driv\$3) same4 (robot\$2 or unmanned or autonomous or selfguid\$3 or cleaner) same4 (control or controller or processor or microprocessor) same4 current same4 (threshold or predetermined or limit or interval or range) same4 wall same4 impact	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 13:38
S33	18	(driv\$3) same4 (robot\$2 or unmanned or autonomous or selfguid\$3 or cleaner) same4 (control or controller or processor or microprocessor) same4 current same4 (threshold or predetermined or limit or interval or range) same4 wall same4 impact same4 pool	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 13:39

S34	8	(driv\$3) same2 (robot\$2 or unmanned or autonomous or selfguid\$3 or cleaner) same2 (control or controller or processor or microprocessor) same2 current same2 (threshold or predetermined or limit or interval or range) same2 wall same2 impact same2 pool	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 13:44
S35	2	((("5213172") or ("5467813"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 13:54
S36	3	robot and pool and drive and (average adj current) and obstacle	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:16
S37	13	robot and pool and drive and (average adj current) and (obstacle or wall)	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:17
S38	3376	700/245,253,255,258,262,302.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:21
S39	2011	180/167,168,169.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:22
S40	1950	318/568.12,580,581,587.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:22
S41	4799	701/50,213.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:22
S42	992	901/1.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:23
S43	9	((("7,247,069") or ("7,143,502") or ("7,118,678") or ("7,089,876") or ("6,842,931") or ("6,815,918") or ("6,758,226") or ("6,299,699") or ("20080281481"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 14:24
S44	19	("5208521"   "5256207"   "5309592"   "5454129"   "5507058"   "5569371"   "6039886").PN. OR ("6299699").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 14:33
S45	6	"10007103"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 16:37
S46	3	"20030120389"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 16:45
S54	2	"20030120389" and drive and controller and (wall or obstacle) and pattern	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 16:58
S55	88	"6255793"	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 17:03
S56	1	("6255793").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 17:03
S57	739	drive same2 average same2 current same2 multiply\$3 same2 constant	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 17:30
S58	62	drive same average same current same multiply\$ same constant	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 17:31
S59	1	drive same average same current same multiply\$ same constant same robot	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 17:34
S60	0	drive same average same current same multiply\$ same constant same cleaner	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 17:34
S61	3	drive same (average adj current) same multiply\$ same constant	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/20 17:35
S62	120	drive same (average near5 (current or voltage)) same (multiply\$ or amplifying) same (constant or gain)	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 09:51

S63	1	drive same (average near5 (current or voltage)) same (multiply\$ or amplifying) same (constant or gain) same (robot\$2 or autonomous or unmanned or selfguid\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 09:54
S64	11	drive same (average near5 (current or voltage)) same (multiply\$ or amplifying) same (constant or gain) same (robot\$2 or autonomous or unmanned or selfguid\$3 or cleaner or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 09:55
S65	11	drive same (average near5 (current or voltage)) same (multiply\$ or amplifying) same (constant or gain) same (robot\$2 or autonomous or unmanned or selfguid\$3 or cleaner or vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:00
S66	3248	drive with (average near5 (current or voltage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:01
S67	11	drive with (average near5 (current or voltage)) with (multiply\$ or amplifying) with (constant or gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:01
S68	9	drive with (average near5 (current or voltage)) with (robot\$2 or autonomous or unmanned or selfguid\$3 or cleaner or vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:03
S69	5	driv\$3 with (threshold or reference or limit or predetermined or interval or range) with (average near5 (current or voltage)) with (robot\$2 or autonomous or unmanned or selfguid\$3 or cleaner or vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:11
S70	817	(threshold or reference or limit or predetermined or interval or range) with (average near5 (current or voltage)) with (gain or amplify\$3 or multiply\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:14
S71	375	(threshold or reference or limit or predetermined or interval or range) with (average near5 (current)) with (gain or amplify\$3 or multiply\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:16
S72	227	(threshold or reference or limit or predetermined or interval or range) with (average near5 (current)) with (gain or amplify\$3 or multiply\$3) and drive\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:17

S73	16	(threshold or reference or limit or predetermined or interval or range) with (average near5 (current)) with (gain or amplify\$3 or multiply\$3) with drive\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:17
S74	22	(threshold or reference or limit or predetermined or interval or range) with (average near5 (current)) with (gain or amplify\$3 or multiply\$3) with driv\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/21 10:17
S75	1	("6262546").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/21 10:48
S76	0	S75 and threshold and (average adj current) and gain and constant and driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 10:49
S77	1	S75 and threshold and (average adj current) and gain and driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 10:50
S78	0	"6021361".pn. and threshold and (average and current) and gain and driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 10:58
S79	1	"6021361".pn. and threshold and (average and current) and driv\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 10:58
S82	1	"6842931".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 11:50
S83	1	"7089876".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/21 13:13
S84	0	"7089876".pn. and controller	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/24 09:51
S85	0	"7089876".pn. and controller	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/24 09:51
S86	1	"7089876".pn. and control	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/24 09:51
S87	0	"7089876".pn. and control and processor	US-PGPUB; USPAT; USOCR	OR	ON	2010/05/24 09:55
S88	1	("6299699").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/14 14:38
S89	1	S88 and pool and scan\$4 and direction and angle and orient\$5	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 14:50
S90	1	S88 and pool and scan\$4 and direction and angle and (reorient\$3 or oriented or orientation or orientating) and degree	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 14:56
S91	4	pool and cleaner and scan\$4 and direction and (reorient\$3 or oriented or orientation or orientating) and ("90" near3 degree) and (predetermined adj angle) and controller and align\$5	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 15:21
S92	60	pool and cleaner and scan\$4 and direction and (reorient\$3 or oriented or orientation or orientating) and ("90" near3 degree) and (predetermined and angle) and controller and align\$5	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 15:23
S93	94	pool and (cleaner or robot) and scanning and direction and (reorient\$3 or oriented or orientation or orientating) and ("90" near3 degree) and (predetermined and angle) and controller and align\$5	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 16:15

S94	1	("7247069").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/14 16:17
S95	0	S94 and S93	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 16:17
S96	0	S94 and pool and scan\$4 and direction and angle and (reorient\$3 or oriented or orientation or orientating) and degree	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 16:18
S97	1	("6842931").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/14 16:19
S98	0	S97 and pool and scan\$4 and direction and angle and (reorient\$3 or oriented or orientation or orientating) and degree	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 16:19
S99	0	S97 and pool and scan\$4 and direction and angle and (reorient\$3 or oriented or orientation or orientating)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 16:19
S100	21	EP-1122382-\$.DID. OR EP-0101590-\$.DID. OR US-5842243-\$.DID. OR US-7160798-\$.DID. OR EP-1012429-\$.DID. OR WO-9848132-\$.DID. OR EP-0169589-\$.DID. OR US-2567552-\$.DID. OR DE-3577585-\$.DID. OR DE-3585288-\$.DID. OR EP-0314259-\$.DID. OR US-2729995-\$.DID. OR US-5454129-\$.DID. OR US-6017400-\$.DID. OR US-7492898-\$.DID. OR EP-1007184-\$.DID. OR WO-9851395-\$.DID. OR US-2781243-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/14 16:27
S101	0	(autonomous near5 robot) same controller same (digital adj compass) same orientation	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:24
S102	0	(autonomous near5 robot) same controller same (electronic adj compass) same orientation	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:25
S103	0	(autonomous same robot) same controller same (electronic adj compass) same orientation	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:25
S104	2	(autonomous same3 robot) same3 controller same3 (electronic adj compass) same3 orientation	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:25
S105	2	( robot) same3 controller same3 (electronic adj compass) same3 orientation	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:26
S106	1	( robot) with controller with (electronic adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:27
S107	4	( robot) with control with (electronic adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:27
S108	1	( robot) with control with (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:28
S109	2	( robot) same control same (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:28
S110	0	( cleaner) same control same (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:28
S111	0	( cleaner) same2 control\$4 same2 (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:29
S112	0	( cleaner) same4 control\$4 same4 (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:29
S113	11	robot with (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/14 17:30

S114	1	("6525762").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/12/15 11:17
S115	197	(remote adj control) and (cleaning near3 mode)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:00
S116	77	(remote adj control) same (cleaning near3 mode)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:00
S117	1	(remote adj control) same (cleaning near3 mode) same antenna	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:07
S118	10	(remote adj control) same (cleaning near3 mode) and antenna	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:07
S119	100	("1935158"   "2923954"   "3010129"   "3303821"   "3626545"   "3713505"   "3789939"   "3837028"   "4114711"   "4173809").PN. OR ("4306329").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:08
S120	51	("3010129"   "4306329"   "4369543"   "4747178"   "4782550"   "4854000"   "5095577"   "5279012"   "5454129"   "5515573"   "5524321"   "5560077").PN. OR ("5709007").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:11
S121	20	(S119 S120) and pool	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:12
S122	3	(S119 S120) and pool and antenna	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 12:12
S123	154	pool same2 robot same2 (cartesian or scanning or pattern)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:14
S124	1	pool same2 (robot or vacuum or cleaner) same2 (cartesian near3 scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:16
S125	1	pool same2 (robot or vacuum or cleaner) same2 (cartesian near5 scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:16
S126	1	pool same2 (robot or vacuum or cleaner) same2 (cartesian same scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:16
S127	1	pool same2 (robot or vacuum or cleaner) same2 (cartesian same2 scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:16
S128	3	pool same2 (robot or vacuum or cleaner) same2 cartesian and (scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:17
S129	229	pool and (robot or vacuum or cleaner) and cartesian and (scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:17
S130	181	pool and (vacuum or cleaner) and cartesian and (scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:18
S131	2	cartesian\$1like same (scan or scanning)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/15 14:19

12/16/2010 11:03:30 AM

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